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Cover: In this repeat pattern of a tile made from copper and glass there are 3 rows of images separated by base sequences and centered around a symbol of the inner ear. Each image has a partner. Top left to bottom right compares a dinosaur with *Drosophila,* top right to bottom left compares an in vitro cell with a real epithelium. Center top to center bottom compares proteins in the lipid membrane with genetic material. Left center to right center compares the rather sterile, non-interlocking bits of information from a gene array with the interlocking puzzle symbolizing integrated knowledge—the challenge being to get the latter from the former. Other comparisons relate molecules, cells, organs, and systems. Original art by Matthew C. Holley.

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Cover: The photo shows a dramatic example of the widespread aberrant axon growth that occurs in the brain when chondroitin sulfate is added to the exposed optic tract in Xenopus. Contributed by Christine E. Holt.

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Cover: The figure shows a structural model of the ligand binding domain of the human muscle nicotinic receptor obtained by scanning lysine mutagenesis combined with homology modeling using acetylcholine binding protein as the template (see article by S. M. Sine, pp. 431–446 of this issue). Alpha subunits are colored *magenta*, the epsilon subunit *yellow*, delta subunit *green*, and beta subunit *orange*. View shows the top of the receptor ligand binding domain as it extends into the synaptic space.